

H12-221 Dumps

HCNP-R&S-IERN (Huawei Certified Network Professional- Implementing Enterprise Routing Network)

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NEW QUESTION 1

Which statements about OSPF packets are true? (Select 3 answers)

- A. Hello packets can be sent after OSPF is enabled on an interface.
- B. LS Request packets are sent only after an adjacency is established.
- C. LS Update packets contain detailed LSA information for LSDB synchronization.
- D. LS Update packets are sent only after an adjacency is established.

Answer: ABC

NEW QUESTION 2

Which of the following statements regarding multicast MAC addresses are true (Select 3 answers)

- A. The high-order 24 bits of a multicast MAC address are 0x01005e while the low-order 23 bits of a multicast MAC address are the low-order 23 bits of a multicast IP address.
- B. One multicast MAC address can map 32 different IP multicast addresses.
- C. Multicast MAC addresses are used in the link layer to identify receivers that are in the same multicast group.
- D. One multicast MAC address can map only one IP multicast address.

Answer: ABC

NEW QUESTION 3

Which of the following connection types can a Router LSA describe? (Select 3 answers)

- A. Point-to-point
- B. Star
- C. Transit
- D. Virtual link

Answer: ACD

NEW QUESTION 4

What is the maximum number of hosts that a network segment 192.168.2.16/28 can support?

- A. 16
- B. 8
- C. 15
- D. 14
- E. 7

Answer: D

NEW QUESTION 5

ACLs can match routing information or data packet addresses to filter unmatched routing information or data packets.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 6

Which of the following statements are true? (Select 3 answers)

- A. The neighbor state can transition from "Down" to "Exchange".
- B. The neighbor state can transition from "Down" to "Init".
- C. The neighbor state can transition from "Init" to "Exstart".
- D. The neighbor state can transition from "Init" to "2-Way".

Answer: BCD

NEW QUESTION 7

Which of the following statements are correct regarding OSPF intra-area route calculation?(Select 2 answers)

- A. Each OSPF router uses only one Router LSA to describe the local active link state for an area.
- B. Each OSPF router uses more than one Router LSA to describe local active link state for an area.
- C. One Router LSA describes only one link.
- D. One Router LSA describes more than one link.

Answer: AD

NEW QUESTION 8

The import-route limit" command is used to set a maximum number of imported routes that can be imported into an OSPF routing process.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 9

IGP routes can be installed into the BGP routing table by running either the network or import-route command.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 10

Which of the following BGP attributes are well known mandatory attributes? (Select 3 answers)

- A. ORIGIN
- B. AS_PATH
- C. NEXT_HOP
- D. MED
- E. LOCAL_PREF
- F. COMMUNITY

Answer: ABC

NEW QUESTION 10

Which of the following BGP attributes cannot be advertised to other neighboring AS?

- A. LOCAL_PREF
- B. AS_PATH
- C. COMMUNITY
- D. ORIGIN

Answer: A

NEW QUESTION 11

The NBMA mode doesn't function if all the routers in the network are not fully connected.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 15

ABRs advertise link state information about non-backbone areas into backbone areas. The backbone area then advertises the routing information into other non-backbone areas. Link state information about the backbone area cannot be advertised into non-backbone areas.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 18

Which statements regarding the range of AS number are true? (Select 3 answers)

- A. If 2-byte AS values are supported, the private AS number ranges from 32768 to 65535.
- B. If 2-byte AS values are supported, the private AS number ranges from 64512 to 65535.
- C. If 2-byte AS values are supported, the AS number ranges from 1 to 65535.
- D. If 4-byte AS values are supported, then the 4-byte AS number is in the x.y forma
- E. Here, "x" and "y" are integers ranging from 1 to 65535 and 0 to 65535 respectively.

Answer: BCD

NEW QUESTION 22

Which of the following is a private AS number?

- A. 65410-65535
- B. 1-64511
- C. 64512-65535
- D. 64511-65535

Answer: C

NEW QUESTION 25

Routes 172.1.12.0/24, 172.1.13.0/24, 172.1.14.0/24, and 172.1.15.0/24 can be summarized into route 172.1.8.0/21.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 30

Which statement regarding BGP is false?

- A. BGP runs over TCP.
- B. BGP is an enhanced distance-vector routing protocol.
- C. BGP uses port number 189.
- D. BGP is an inter-AS routing protocol.

Answer: C

NEW QUESTION 33

Which of the following statements regarding NSSA commands is false?

- A. The default-route-advertise command is used to generate a type-7 default route.
- B. The no-import-route parameter prevents the import of AS external routes in the form of Type-7 LSAs into an NSSA.
- C. The no-summary parameter prevents the advertisement of Type-3 and Type-4 LSAs in an area.
- D. The set-n-bit parameter indicates that an N-bit will be set in a DD packet.

Answer: A

NEW QUESTION 38

IGMP interface group report information

Ethernet6/1/1(40.1.1.1):

Total 1 IGMP Group reported

Group: 232.0.0.1

Uptime: 00:00:22

Expires: off

Last reporter: 40.1.1.3

Last-member-query-counter: 0

Last-member-query-timer-expiry: off

Group mode: include

Version1-host-present-timer-expiry: off

Version2-host-present-timer-expiry: off

Source list:

Source: 20.1.1.56

Uptime: 00:00:22

Expires: 00:05:08

Last-member-query-counter: 3

Last-member-query-timer-expiry: 00:00:01

Source: 20.1.1.57

Uptime: 00:00:22

Expires: 00:00:17

Last-member-query-counter: 3

Last-member-query-timer-expiry: 00:00:01

The preceding information shows the entry status of an IGMP interface on Ethernet 6/1/1 on a router.

Assume IGMP sends the group-and-source-specific Query message. Which of the following statements is true?

- A. IGMP sequentially sends two messages; The source carried in one of the messages is 20.1.1.56 with no S flag bit set; the source carried in the other message is 20.1.1.57, with the S flag bit set to 1.
- B. IGMP sequentially sends two messages: The source carried in one of the messages is 20.1.1.56 with the S flag bit set to 1; the source carried in the other message is 20.1.1.57, with no S flag bit set.
- C. IGMP sends only one message carrying two sources 20.1.1.56 and 20.1.1.57, with the S flag bit set to 1.
- D. IGMP sends only one message carrying two sources 20.1.1.56 and 20.1.1.57, with no S flag bit set.

Answer: B

NEW QUESTION 41

What are the functions of route filtering? (Select 3 answers)

- A. Avoids sub-optimal routes generated during route import,
- B. Avoids routing loops.
- C. Affects route selection by changing route attributes.
- D. Implements accurate route importing and controls route advertisement.

Answer: ABD

NEW QUESTION 46

According to BGP route selection rules, a local route that is automatically summarized takes precedence over a local route that is manually summarized.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 51

How many bits of the MAC address space is available for mapping IP multicast addresses?

- A. 24
- B. 22
- C. 25
- D. 23

Answer: D

NEW QUESTION 52

OSPF supports two authentication modes: area authentication and interface authentication. These two modes cannot be configured at the same time.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 57

Which of the following statements about a neighbor state machine is true?

- A. The Attempt state appears only on an NBMA network or a broadcast network.
- B. The Attempt state appears only on an NBMA network or a P2MP network.
- C. LSR packets can be sent in the Exchange state.
- D. The Full state indicates that LSDB synchronization is complet
- E. No LSDB information will be exchanged.

Answer: C

NEW QUESTION 61

Which of the following statements regarding BGP route selection rules are true? (Select 3 answers)

- A. BGP initially ignores routes with unreachable next hops,
- B. A summarized route takes precedence over a non-summarized route.
- C. IBGP routes take precedence over EBGP routes.
- D. If all other factors are the same, the route with the shortest length cluster list is preferred.

Answer: ABD

NEW QUESTION 66

Enabling MD5 authentication between BGP peers can prevent DoS attacks that target BGP peers.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 67

Which of the following route entries matches ACL 2001 that is defined below? 1.0.0.0/8,1.2.0.0/16,1.2.3.0/24,1.2.4.0/24,1.2.5.0/24, 1.2.6.0/24,1.2.7.0/24,1.2.8.0/24

ACL 2001

Basic ACL 2001,1 rule

Ad's step is 5

rule 0 permit source 1.2.0.0 0.0.254.255

- A. 1.2.3.0/24,1.2.4.0/24, 1.2.5.0/24, 1.2.6.0/24,1.2.7.0/24,1.2.8.0/24
- B. 1.0.0.0/8 ,1.2.0.0/16,1.2.3.0/24,1.2.4.0/24,1.2.5.0/24, 1.2.6.0/24,1.2.7.0/24,1.2.8.0/24
- C. 1.2.3.0/24,1.2.5.0/24,1.2.7.0/24
- D. 1.2.0.0/16,1.2.4.0/24,1.2.6.0/24,1.2.8.0/24

Answer: D

NEW QUESTION 72

Route filtering can filter not only routing information but also link-state information.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 77

A failure in establishing a BGP connection can be addressed by checking the TCP connectivity and BGP peer configurations.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 82

Why is BGP run by core routers in transit AS?

- A. To eliminate route loops
- B. To ensure the transmission of data packets to the external destination addresses
- C. To optimize network within an AS
- D. To ensure only one export

Answer: B

NEW QUESTION 86

To which attribute type does the BGP AS-Path attribute belong?

- A. Well -known Mandatory
- B. Well-known Discretionary
- C. Optional Transitive
- D. Optional Non-transitive

Answer: A

NEW QUESTION 88

Which of these is a valid VLSM subnet obtained by subnetting the network address 172.29.100.0/16?

- A. 172.29.100.8/28
- B. 172.29.100.32/28
- C. 172.29.100.60/28
- D. 172.29.100.104/28

Answer: B

NEW QUESTION 91

Which of the following parameters are optional when configuring a BGP peer? (Select 2 answers)

- A. IP address
- B. Description
- C. Password
- D. AS-number

Answer: BC

NEW QUESTION 96

The peer connect-interface" command is recommended to establish peer relationships between two routers connected through "multiple" links.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 97

By default, the cost of an OSPF interface is calculated based on the bandwidth. The formula to calculate the cost is reference bandwidth/interface bandwidth.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 100

Which of the following route selection tools is used in multiple routing protocols, can be configured with match conditions, and consists of if-match and apply clauses?

- A. AS-path-filter
- B. IP-prefix
- C. Route-policy
- D. Community-filter

Answer: C

NEW QUESTION 102

What does the IP-prefix-filter "ip ip-prefix test index 10 deny 0.0.0.0 0 less-equal 32" mean?

- A. Matching only default routes
- B. Matching all routes
- C. Denying only default routes
- D. Denying all routes

Answer: D

NEW QUESTION 104

Which of the following statements regarding an AS-external-LSA are true? (Select 3 answers)

- A. The Link State ID field specifies the network segment address of an advertised destination.
- B. The Advertising Router field specifies the Router ID of an ASBR.
- C. The Net mask field specifies the network mask of an advertised destination.
- D. The Link State ID together with Advertising Router fields are used to uniquely identify an AS-external-LSA.

Answer: ABC

NEW QUESTION 105

How does community attribute of the BGP route set by routing policies affect route selection?

- A. The Community attribute directly affects route selection because it must be compared during the route selection process.
- B. The Community attribute does not affect route selection because it is non-transitive and cannot be transmitted between routers.
- C. Routes are classified by the Community attribute which indirectly affects route selection.
- D. Different route attributes such as the Local-Preference and MED values can be set for routes in different communities.

Answer: C

NEW QUESTION 108

Generally, the performance of an IP-prefix-filter is greater than that of an ACL.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 111

Which of the following statements is false?

- A. The Type-1 external metric is the sum of the external metric and the internal cost to reach an ASBR.
- B. The Type-2 external metric uses only the AS external metric.
- C. The metric of an external route is the sum of the AS external metric and the AS internal metric.
- D. The effects of setting Forwarding Address to a non-zero value is that the next hop of the external route imported into OSPF is within the OSPF routing area.

Answer: C

NEW QUESTION 112

Based on BGP route selection rules, the route with the lowest local preference is preferred.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 116

The route selection tool route-policy" can set and filter BGP attributes based on pre-defined conditions. Therefore, this tool is often used to define policies towards a BGP peer or during route generation.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 119

Policy-based routing and routing policies implements the forwarding of data packets in different ways: A routing policy mainly controls packet forwarding. According to the routing policy, packets can be forwarded without a routing table; Policy-based routing mainly controls the importing, advertising, and receiving of routing information.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 120

Which of the following tools cannot be used for route filtering?

- A. Filter-policy
- B. IP-prefix
- C. Route-policy
- D. Policy-based-route

Answer: D

NEW QUESTION 125

<Quidway>dis igmp group verbose IGMP interface group report information Ethernet6/1/0(10.1.1.1):

Total 1 IGMP Group reported Group: 225.0.0.1

Uptime: 00:09:03

Expires: 00:02:09

Last reporter: 10.1.1.30

Last-member-query-counter: 0

Last-member-query -timer-expiry: off Group mode: exclude

Version1-host-present-timer-expiry: off Version2-host-present-timer-expiry: 00:02:09

The preceding information is generated after a router receives a Report message from group 225.0.0.1 through Ethernet 6/1/0. Which type of Report message will not be processed by the router?

- A. IS_IN
- B. ALLOW
- C. BLOCK

Answer: C

NEW QUESTION 129

Which of these addresses are reserved for use by multicast applications?

- A. Class A
- B. Class B
- C. Class E
- D. Class D

Answer: D

NEW QUESTION 131

Based on BGP route selection rules, the route with the lowest multi-exit discriminator (MED) is preferred.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 136

Which of the following statements are incorrect regarding Link ID of Router LSA in an OSPF routing protocol? (Select 2 answers)

- A. The Link ID of point-to-point links are the neighbors Interface IP address.
- B. The Link ID of TransNet links are the network address of TransNet network segment.
- C. The Link ID of StubNet links are the network address of stub network.
- D. The Link ID of virtual links are the neighbor's Router ID of virtual link.

Answer: AB

NEW QUESTION 141

BGP is an exterior gateway protocol which runs between ASs. It focuses on the control of route propagation and selection of optimal routes rather than discovery and calculation of routes.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 144

Which of the following messages exist only in PIM-SM? (Select 2 answers)

- A. Join/Prune
- B. Assert
- C. Bootstrap
- D. Register

Answer: CD

NEW QUESTION 149

What command must be configured to establish a BGP connection between indirectly connected EBGp peers?

- A. peer connect-interface
- B. peer valid-ttl-hops
- C. peer ignore
- D. peerebgp-max-hop

Answer: D

NEW QUESTION 154

Which of the following route entries matches ACL 2001 that is defined below? 1.0.0.0/8 ,1.2.0.0/16,1.2.3.0/24,1.2.4.0/24,1.2.5.0/24,1.2.6.0/24,1.2.7.0/24,1.2.8.0/24 ACL 2001:
Basic ACL 2001, 1 rule Ad's step is 5
rule 0 permit source 1.2.1.0 0.0.254.255

- A. 1.2.3.0/24,1.2.4.0/24, 1.2.5.0/24, 1.2.6.0/24,1.2.7.0/24,1.2.8.0/24
- B. 1.0.0.0/8,1.2.0.0/16,1.2.3.0/24,1.2.4.0/24,1.2.5.0/24, 1.2.6.0/24,1.2.7.0/24,1.2.8.0/24
- C. 1.2.3.0/24,1.2.5.0/24,1.2.7.0/24
- D. 1.2.0.0/16,1.2.4.0/24,1.2.6.0/24,1.2.8.0/24

Answer: C

NEW QUESTION 155

Which of the following is used to avoid routing loops in BGP?

- A. Use ORIGIN attribute to record the origin of the route.
- B. Use AS_PATH attribute to record all AS areas that a route passes.
- C. Use NEXTJHOP attribute to record next hop path
- D. Use MED attribute to influence export selection of other Ass

Answer: B

NEW QUESTION 158

Assume that the subnet mask is 255.255.255.248. Which of the following are valid host addresses? (Select 3 answers)

- A. 192.168.200.87
- B. 196.123.142.190
- C. 223.168.210.100
- D. 220.100.100.154

Answer: BCD

NEW QUESTION 162

How does an IGMP router maintain group memberships on a network? (Select 2 answers)

- A. The router maintains a timer for each group membership which it refreshes for hosts that send report messages and deletes the group membership of hosts that do not.
- B. The router periodically sends Query message
- C. After a receiver host receives the Query message, the receiver host sends a Report message.
- D. A receiver host periodically sends a Report message.
- E. The router deletes a group membership only when it receives a Leave message for this group.

Answer: AB

NEW QUESTION 164

The router ID which is configured in the system view takes precedence over the router ID configured in the BGP view.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 165

In VRP, by default, a BGP router does not automatically send a refresh packet to its BGP peers for retransmitting an Update packet after the inbound routing policy of the BGP peers changes.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 166

When a routing protocol import routes discovered by other routing protocols, it must import only the routes that meet the conditions and set attributes for the imported routes. In such a case, a route-policy can be created.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 170

Which of the following route entries match the IP-Prefix defined below?

ip ip-prefix test index 10 permit 192.168.0.0 16 greater-equal 24 less-equal 28

(Select 2 answers)

- A. 192.168.1.0/24
- B. 192.10.2.0/24
- C. 192.168.3.0/25
- D. 192.168.4.0/30

Answer: AC

NEW QUESTION 172

Which of the following statements are correct regarding OSPF Network LSAs? (Select 2 answers)

- A. Network LSAs are generated by ABR.
- B. Only the router which is connected to NBMA or Broadcast Network may generate Network LSAs.
- C. DR uses Network LSAs to describe routers that have established adjacency with it in the network,
- D. Network LSAs are flooded in the entire AS.

Answer: BC

NEW QUESTION 176

What are the differences between the IGMP versions 1, 2 & 3? (Select 2 answers)

- A. IGMPv1/v2 cannot elect devices which may send queries but IGMPv3 can.
- B. IGMPv2/v3 members can actively leave groups, whereas in IGMPv1 members cannot
- C. IGMPv1/v2 do not support the SSM service model but IGMPv3 does.
- D. IGMPv1/v2 do not support group-specific queries but IGMPv3 does.

Answer: BC

NEW QUESTION 179

Which is the origin attribute of the BGP routes redistributed using the import-route command?

- A. IGP
- B. EGP
- C. Incomplete
- D. Unknown

Answer: C

NEW QUESTION 181

Which of the following routers can initiate SFT switchover on a PIM-SM network? (Select 2 answers)

- A. Last-hop router
- B. Intermediate router
- C. RP
- D. Source's DR

Answer: AC

NEW QUESTION 186

Which of the following multicast protocols can generate multicast distribution trees?

- A. MBGP
- B. MSDP
- C. IGMP
- D. PIM

Answer: D

NEW QUESTION 191

A company has four departments. Department A has 50 PCs, Departments B and C both have 20 PCs, and Department D has 30 PCs. Assuming the IP address 192.168.1.0/x is used, which of the following statements are true if the VLSM technology is employed for subnetting? (Select 2 answers)

- A. Plan subnet 192.168.1.0/25 for Department
- B. The range of host addresses is 1 to 126.
- C. Plan subnet 192.168.1.128/27 for Department
- D. The range of host addresses is 129 to 159.
- E. Plan subnet 192.168.1.160/27 for Department
- F. The range of host addresses is 161 to 190.
- G. Plan subnet 192.168.1.192/27 for Department

H. The range of host addresses is 192 to 222.

Answer: AC

NEW QUESTION 194

If there are two BGP routes with the same destination address but different next hops in a BGP routing table, then which statement regarding the two BGP routes is true?

- A. Both BGP routes are advertised to other BGP peers.
- B. Only the optimal route between the two is advertised to other BGP peers.

Answer: B

NEW QUESTION 199

Which of these statements is false when using the import-route command to import routes into BGP?

- A. The import-route command can import IGP routes, direct routes, and static routes into BGP.
- B. A process ID must be specified if OSPF routes or RIP routes are imported into BGP.
- C. By default, the origin attribute of imported routes is IGP.
- D. Routing policies filters the routes imported from other routing protocols.

Answer: C

NEW QUESTION 200

Which of the following statements regarding a multicast distribution tree are true? (Select 3 answers)

- A. Multicast distribution trees are classified into two types: SFT and RPT.
- B. The PIM-SM protocol can generate both RFTs and SPTs.
- C. The PIM-55M protocol can generate only SFTs.
- D. The PIM-DM protocol can generate both RFTs and SFTs.

Answer: ABC

NEW QUESTION 204

What is the mask value for the network 175.25.128.0/19?

- A. 255.255.0.0
- B. 255.255.224.0
- C. 255.255.24.0
- D. Different based on the address type

Answer: B

NEW QUESTION 209

Which of the following situations will occur when the command multicast load balance is configured? (Select 3 answers)

- A. If there exists no unicast equal-cost routes, multicast load balancing fails.
- B. If group address-based load splitting is employed, balanced distribution of entries over equal-cost routes cannot be ensured due to hash function limitations.
- C. Balanced distribution of entries over equal-cost routes can be ensured as long as multicast load balancing is performed.
- D. During multicast load splitting, traffic may not be balanced among equal-cost routes because multicast load balancing is based on multicast entries not multicast data packets.

Answer: ABD

NEW QUESTION 210

Which of the following statements are correct regarding BGP attributes? (Select 2 answers)

- A. Till now, there are 16 BGP attributes
- B. BGP attribute can be extended to 256 types
- C. Well known discretionary attribute may not be included in each BGP update message, such as origin attribute
- D. AS_PATH is an optional transitive attribute

Answer: AB

NEW QUESTION 213

Based on BGP route selection rules, how are Origin attributes listed in descending order of priority?

- A. EGP > IGP > Incomplete
- B. IGP > Incomplete > EGP
- C. Incomplete > EGP > IGP
- D. IGP > EGP > Incomplete

Answer: D

NEW QUESTION 214

Which of the following protocols support the multicast ASM service model? (Select 2 answers)

- A. PIM-SM and IGMFV2
- B. PIM-SSM and IGMPv3
- C. BGPandOSPF
- D. PIM-DM and IGMPv2

Answer: AD

NEW QUESTION 218

Given a Class B network 155.16.0.0 with the mask 255.255.255.192, what is the maximum number of subnets that can be created, and what is the maximum number of hosts available within each created subnet?

- A. 512 126
- B. 1024 64
- C. 1024 62
- D. 256 254
- E. 192 254

Answer: C

NEW QUESTION 220

A broadcast and an NBMA network, each having two or more routers, must have both DR and BDR.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 221

A BGP finite state machine has the following states: Active

OpenConfirm Idle Established OpenSent

What is the state transition sequence to establish a successful BGP peer relationship?

- A. Idle-OpenSent-OpenConfirm-Active-Established
- B. Idle-Active-OpenSent-OpenConfirm-Established
- C. Active-Idle-OpenSent-OpenConfirm-Established
- D. Idle-Active-OpenConfirm-OpenSent-Established

Answer: B

NEW QUESTION 225

Which statements regarding BGP route advertisement are true? (Select 2 answers)

- A. All BGP routes learned from BGP peers are advertised to other BGP peers,
- B. Only the routes learned from an IGP are advertised to other BGP peers.
- C. By default, the routes learned from IBGP peers are not advertised to other IBGP peers,
- D. Only the optimal routes are advertised to other BGP peers.

Answer: CD

NEW QUESTION 228

The defined route-policy set-cost configurations are: ip ip-prefix 1 permit 10.1.0.0 16

route-policy Set-cost permit node 10 if-match ip-prefix 1

apply cost 300

route-policy Set-cost permit node 20 apply cost 200

Which of the following statements is true?

- A. The route 10.1.0.0/16 matches node 10 and its cost is set to 300.
- B. The route 10.1.0.0/16 matching node 10 also matches node 20 and its final cost is set to 200.
- C. Costs of all routes will be set to 200.
- D. All routes that fail to match node 10 will be denied.

Answer: A

NEW QUESTION 231

Which statement about OSPF is false?

- A. The router with a higher Router Priority has a higher DR election priority.
- B. When two routers have the same Router Priority, the one with a larger value for Router ID has a higher DR election priority.
- C. If a DR fails, the BDR automatically takes over as the DR and a new BDR is elected.
- D. If a BDR fails, the DR will not take over as the BDR and waits for the fault recovery to handle the situatio
- E. No new BDR will be elected.

Answer: D

NEW QUESTION 233

Which of the following elements are used by Network LSA to describe broadcast or NBMA network segments in OSPF routing protocol? (Select 3 answers)

- A. Link ID
- B. Net mask
- C. Attached Router list
- D. Metric

Answer: ABC

NEW QUESTION 238

Route importing can be used when multiple routing protocols run on different networks and these networks need to share routing information.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 242

Which of the following network link type is not the basic network link type defined in OSPF?

- A. P2P
- B. P2MP
- C. Broadcast
- D. Virtual link

Answer: D

NEW QUESTION 244

The default-route originate command in the RIP protocol advertises a default RIP route to the peers. When using this command, which of the following attributes can be set for the default route?

- A. Tag
- B. Cost
- C. Interface
- D. Nexthop

Answer: B

NEW QUESTION 249

Which of the following methods are supported by OSPF for delivering default routes? (Select 3 answers)

- A. Delivery using an ABR
- B. Delivery using a backbone router
- C. Forcible delivery
- D. Non-forcible delivery

Answer: ACD

NEW QUESTION 251

What is the function of well-known community attribute NO_EXPORT_SUBCONFED in BGP?

- A. Routes received carrying this value cannot be advertised outside of the confederation.
- B. Routes received carrying this value cannot be advertised to any BGP peers.
- C. Routes received carrying this value cannot be advertised to any EBGP peers.
- D. All above statements are wrong

Answer: C

NEW QUESTION 253

Which type of message is periodically exchanged between BGP peers to keep the BGP connection alive?

- A. Open
- B. Hello
- C. Route-refresh
- D. Keepalive

Answer: D

NEW QUESTION 256

The ABR of an NSSA does not advertise Type-4 and Type-5 LSAs to an NSSA instead it imports external routes into the NSSA,

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 259

ABR of a Stub area does not flood Type-5 and Type-4 LSAs into the area. Therefore, the Stub area does not have the external AS routing capability. ABRs of the Stub area generate a default route into the area which enables packet forwarding to external destinations.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 260

Which of the following situations will occur when the command "multicast bad balance" is configured? (Select 3 answers)

- A. If there exists no unicast equal-cost routes, multicast load balancing fails.
- B. If group address-based load splitting is employed, balanced distribution of entries over equal-cost routes cannot be ensured due to hash function limitations.
- C. Balanced distribution of entries over equal-cost routes can be ensured as long as multicast load balancing is performed.
- D. During multicast load splitting, traffic may not be balanced among equal-cost routes because multicast load balancing is based on multicast entries not multicast data packets.

Answer: ABD

NEW QUESTION 263

Which of the following route prefixes match the IP-prefix-filter given below?

"ip ip-prefix test index 10 permit 10.0.0.0 16 greater-equal 24 less-equal 28" (Select 3 answers)

- A. 10.0.1.0/23
- B. 10.0.1.0/24
- C. 10.0.1.0/25
- D. 10.0.1.0/28

Answer: BCD

NEW QUESTION 268

Over a working TCP connection, what is the state of the BGP peer relationship if the peer AS number configured for a BGP router is inconsistent with the AS number of its BGP peer?

- A. Idle
- B. Active
- C. OpenSent
- D. Established

Answer: B

NEW QUESTION 273

What is the maximum number of bits that can be used for subnetting, when the network address is a Class C address?

- A. 6
- B. 8
- C. 12
- D. 14

Answer: A

NEW QUESTION 277

Which of the following BGP attributes can prevent routing loops? (Select 3 answers)

- A. Originator_ID
- B. Aggregator
- C. Cluster_List
- D. AS-Path

Answer: ACD

NEW QUESTION 280

We can have different network segments in an OSPF area. We can also have same network segment in different OSPF areas.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 285

In a route-policy, which BGP attributes can be used to define apply clauses? (Select 3 answers)

- A. Local-Preference
- B. Tag
- C. Origin
- D. AS-Path

Answer: ACD

NEW QUESTION 289

Which of the following statements are false? (Select 3 answers)

- A. ASBR-Summary-LSAs describe the route to an ASBR and are flooded within an AS.
- B. ASE-LSAs describe the route to an external AS and are flooded to an external AS.
- C. AS-external-LSAs do not belong to any particular OSPF area,
- D. The Type-1 external metrics include only the AS external metric.

Answer: ABD

NEW QUESTION 294

Which of the following statements regarding the MED attribute are true? (Select 3 answers)

- A. Based on BGP route selection rules, the MED has precedence over the AS_Path, Preferred-Value, Local-Preference, and Origin attributes.
- B. The MED of a BGP route is 100 by default.
- C. Generally, BGP compares only the MEDs of routes received from the same AS but if the "compare-different-as-med" command is configured, BGP can compare the MEDs of the routes received from multiple ASs.
- D. the default MED value 0 on a BGP indicates that the route is not specific
- E. If the bestroute med-none-as-maximum command is configured, the maximum MED value that can be set is 4294967295.

Answer: ACD

NEW QUESTION 298

Which of the following attributes must exist in the BGP update messages? (Select 3 answers)

- A. LOCAL_PREF
- B. NEXT_HOP
- C. ORIGIN
- D. AS_PATH

Answer: BCD

NEW QUESTION 301

For link-state routing protocols, filtering inbound routes cannot block the transmission of link-state information. The filtering effect means that routes cannot be injected into the local routing table but neighbors can still receive complete route state information and calculate complete routes.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 306

Which of the following routes matches the ACL filter given below? "acl number 2001 rule 0 permit source 1.1.0.0 0"

- A. 1.1.1.1/32
- B. 1.1.1.0/24
- C. 1.1.0.0/16
- D. 1.0.0.0/8

Answer: C

NEW QUESTION 310

Default routes between routers are a low-cost solution because they are easy to configure and require less system resources when compared with maintaining a complete routing table.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 311

Which of the following is the multicast distribution tree maintained by PIM-DM?

- A. SFT
- B. CBT
- C. RFT
- D. STP

Answer: A

NEW QUESTION 312

OSPF uses SPF algorithm to compute the SPF tree based on the topology. What is the node of the 5PF tree?

- A. Router
- B. Router and network segment
- C. Port and network segment
- D. Router and port

Answer: B

NEW QUESTION 315

Which port number is used by BGP to establish a TCP connection?

- A. 520
- B. 89
- C. 179
- D. 180

Answer: C

NEW QUESTION 316

Which of the following statements regarding ACL type are true? (Select 3 answers)

- A. ACL consists of basic ACL, advanced ACL and interface-based ACL
- B. ACL ranging from 2000 to 2999 belongs to advanced ACL
- C. ACL ranging from 3000 to 3999 belongs to advanced ACL
- D. Advanced ACL can be used to match either destination address or source address

Answer: ACD

NEW QUESTION 318

Which of the following statements regarding the Reverse Path Forwarding (RPF) mechanism are true?(Select 2 answers)

- A. Multicast RPF does not depend on unicast routing.
- B. All multicast protocols adopt the RPF mechanism.
- C. A router discards the received multicast packets if the RPF check fails.
- D. The RPF mechanism has two functions: It prevents multicast routing loops and the forwarding of redundant multicast packets.

Answer: CD

NEW QUESTION 320

An Autonomous System (AS) is a set of routers under the control of one technical administration that presents a common routing policy.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 322

How does a BGP router process a received route whose next hop is unreachable?

- A. The BGP router sends an error message to the router that has sent the update message.
- B. The BGP router accepts the route and adds it to the BGP routing tabl
- C. This route, however, is neither preferred nor added to the IP routing table for packet forwarding.
- D. The BGP router refuses the route.
- E. The BGP router accepts the route and adds it to the BGP routing tabl
- F. This route participates in route selection and may be selected as the optimal route to be added to the IP routing table for packet forwarding.

Answer: B

NEW QUESTION 327

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